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Serial No.: 08/746,635
Filed: November 13, 1996
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Amendments to the Claims:

Please amend claims 24 and 25, and add new claims 27-38 as set forth below.

1-19. (Canceled)

20. (Previously presented) A method for diagnosing erythrocyte hemolysis in a subject who may have erythrocyte hemolysis comprising the steps of:

- (a) obtaining a serum sample from said subject; and
- (b) determining the level of erythrocyte adenylate kinase activity in said sample, the presence of at least about 20 U/L erythrocyte adenylate kinase activity in said sample being indicative of erythrocyte hemolysis in said subject.

21-23. (Canceled)

24. (Currently amended) The method of claim 20, wherein determination of erythrocyte adenylate kinase activity comprises the steps of:

determining a value for total adenylate kinase activity in the serum sample;
determining a value for percentage erythrocyte adenylate kinase in the sample;
and
determining erythrocyte adenylate kinase activity in the sample by multiplying the value for percentage erythrocyte adenylate kinase by the value for total adenylate kinase activity.

~~determining the proportion of erythrocyte adenylate kinase to total adenylate~~

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~~kinase.~~

25. (Currently amended) The method of claim 20, wherein erythrocyte adenylate kinase activity is determined using an antibody that is specific for and binds to adenylate kinase.

26. (Previously presented) The method of claim 25, wherein the antibody is specific for erythrocyte adenylate kinase.

27. (New) The method of claim 25, where the antibody is detected using a radioimmunoassay.

28. (New) The method of claim 25, where the antibody is detected using an enzyme-linked immunosorbent assay (ELISA).

29. (New) The method of claim 25, where the antibody is detected using immunoprecipitation.

30. (New) The method of claim 25, wherein the antibody is labeled with a detectable marker.

31. (New) The method of claim 25, wherein the antibody is labeled with a radioisotope.

32. (New) The method of claim 25, wherein the antibody is labeled with radioactive iodine.

33. (New) The method of claim 26, where the antibody is detected using a radioimmunoassay.

34. (New) The method of claim 26, where the antibody is detected using an enzyme-linked immunosorbent assay (ELISA).

35. (New) The method of claim 26, where the antibody is detected using immunoprecipitation.

36. (New) The method of claim 26, wherein the antibody is labeled with a detectable marker.

37. (New) The method of claim 26, wherein the antibody is labeled with a radioisotope.

38. (New) The method of claim 26, wherein the antibody is labeled with radioactive iodine.